

Process for carbonitriding steel.**Publication number:** EP0626468**Publication date:** 1994-11-30**Inventor:** BESWICK JOHN MICHAEL (NL); KERRIGAN AIDAN MICHAEL (NL); SLYCKE JAN TURE (NL); VOLLMER TERENCE TAYLOR (NL)**Applicant:** SKF IND TRADING & DEV (NL)**Classification:****- international:** *F16C33/62; C21D1/78; C21D9/40; C22C38/00; C22C38/18; C22C38/22; C23C8/32; C21D9/36; F16C33/62; C21D1/78; C21D9/40; C22C38/00; C22C38/18; C22C38/22; C23C8/06; C21D9/36; (IPC1-7): C23C8/32; C21D9/36***- European:** C21D1/78; C21D9/40; C23C8/32**Application number:** EP19940201258 19940506**Priority number(s):** NL19930000901 19930526**Also published as:**US5456766 (A1)
NL9300901 (A)
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EP0626468 (B1)**Cited documents:**GB2258274
GB2209058
GB2235212**Report a data error here****Abstract of EP0626468**

Process for carbonitriding a steel comprising: 0.75 - 1.1 % by weight of C; up to 1.0 % by weight of Si; less than 0.015 % by weight of P; up to 0.5 % by weight of Mo; up to 1.2 % by weight of Mn; 0.5 - 2 % by weight of Cr, the remainder being Fe, by exposing it at elevated temperatures to an atmosphere comprising at least carbon monoxide, hydrogen, nitrogen and added ammonia. This is carried out by exposing it, between 780 and 900 DEG C, for from 1 to 10 hours, to an atmosphere comprising at least carbon monoxide, hydrogen and ammonia with a carbon activity between 0.90 and 1.10 and a nitrogen potential between 0.10 and 0.60 % N.

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